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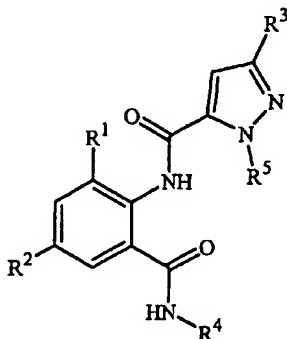
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(54) Title: ANTHRANILAMIDE INSECTICIDES



(I)

(57) Abstract: This invention provides compounds of Formula (1), *N* oxides and suitable salts thereof, wherein R<sup>1</sup> is Me, Cl, Br or I; R<sup>2</sup> is Cl, Br, I or -CN; R<sup>3</sup> is Cl, Br, CF<sub>3</sub>, OCH<sub>2</sub>CF<sub>3</sub> or OCF<sub>2</sub>H; R<sup>4</sup> is H; or C<sub>1-4</sub>alkyl, C<sub>2-4</sub>alkenyl or C<sub>2-4</sub>alkynyl, each optionally substituted with CN or Sme; and R<sup>5</sup> is phenyl substituted with 1 to 3 substituents selected from the group consisting of F, Cl, Br and Me. Also disclosed are methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biologically effective amount of a compound of Formula (1), an *N*-oxide thereof or a suitable salt of the compound (e.g., as a composition described herein). This invention also pertains to a composition for controlling an invertebrate pest comprising a biologically effective amount of a compound of Formula (1), an *N*-oxide thereof or a suitable salt of the compound and at least one additional component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 01/70671 A2 (E. I. DU PONT DE NEMOURS & CO., USA) 27 September 2001 (2001-09-27)	1, 4, 8, 14
Y	examples D168, D177, D210, D232-D235, D241	3
X	WO 03/024222 A1 (E. I. DU PONT DE NEMOURS & CO., USA) 27 March 2003 (2003-03-27) table 5	1, 2, 4-9, 11-14
X	WO 03/015518 A1 (E. I. DU PONT DE NEMOURS & CO., USA) 27 February 2003 (2003-02-27) table 5	1, 2, 4-16
P, Y	WO 2004/067528 A (E. I. DU PONT DE NEMOURS AND COMPANY; HUGHES, KENNETH, ANDREW; LAHM, GE) 12 August 2004 (2004-08-12) page 49	3

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Information on patent family members

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